

Amendments to the Claims

This listing of claims will replace all prior versions and listings of claims in the application.

Listing of Claims

- 1 canceled
2. (currently amended) A method for high speed rerouting in a multi protocol label switching (MPLS) network, comprising the steps of:
setting a backup Label Switched Path (LSP) comprising a ~~point-to-multi-point~~ point-to-multipoint reverse anycast tree reaching an ingress Label Switching Router (LSR) with an egress LSR of a ~~multi-point-to-point~~ multipoint-to-point LSP performing as a root; and
transferring, at a LSR sensed a failure, a traffic stream through the reverse anycast tree by ~~loop-backing~~ looping back the traffic stream in a reverse direction, when the failure occurs in one link in the MPLS network.
3. (original) The method of claim 2, the traffic stream transferring step comprising the step of transferring a loop-backed packet based on a priority predetermined in each link, when the loop-backed packet reaches to a merging LSR of an upstream having a plurality of links.
4. (original) The method of claim 2, the traffic stream transferring step comprising the steps of:
generating, at the LSR sensed the multi failure, a fault indication signal (FIS) message representing that a transfer route does not exist and transferring the message to a LSR of a downstream when the multi failures are occurred in a plurality of links comprising in the MPLS network;
transferring, at the LSR of the downstream, the loop-backed traffic to the reverse anycast tree not suffering the multi failures based on the FIS message.